

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application : Noa M. Rensing et al.

Application No.

Filed : HEREWITH

For : MICRO-ELECTROMECHANICAL OPTICAL SWITCH ASSEMBLY

FOR OPTICAL DATA NETWORKS

Examiner

Attorney's Docket : MIOPT-008XX

Group Art Unit:

By:\_

Beverly E Hjorth Registration No. 32,033 Attorney for Applicants

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

It is desired to cite for the record in this application the enclosed references listed on the attached copy of PTO Form #1449. The paragraph(s) marked below are applicable to this Information Disclosure Statement.

[X] (1) Pursuant to 37 C.F.R. § 1.97(b)(1) and (2), the attached Information Disclosure Statement is being filed within three months of the filing date of the above identified national application or within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 of the above identified application. Accordingly, applicant(s) believes that no fee or statement under 37 C.F.R. § 1.97(e) is required.

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EV 009951989 US

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- [] (2) Pursuant to 37 C.F.R. § 1.97(b)(3), applicant(s) believes the attached Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits. Accordingly, applicant(s) believes that no fee or statement under 37 C.F.R. § 1.97(e) is required.
- [] (3) Pursuant to 37 C.F.R. § 1.97(b)(4), applicant(s) believes the attached Information Disclosure Statement is being filed before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Accordingly, applicant(s) believes that no fee or statement under 37 C.F.R. § 1.97(e) is required.
- [] (4) Pursuant to 37 C.F.R. § 1.97(c), the attached Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by:
  - [] a statement under 37 CFR § 1.97(e); or
  - [] the fee set forth in § 1.17(p).

## PETITION UNDER 37 CFR § 1.97(d)

[] (5) Pursuant to 37 CFR § 1.97(d), applicant(s) hereby petitions the Commissioner to consider the attached Information Disclosure Statement which is being filed on or before payment of the issue fee. This petition is accompanied by a statement under 37 C.F.R. § 1.97(e) and the petition fee set forth in 37 C.F.R. § 1.17(p).

#### STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

[] (6) The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

## STATEMENT UNDER 37 C.F.R. § 1.97(e)(2)

[ ] (7) The undersigned hereby states that no item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, no item information contained in the attached Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Application No. Filed: HEREWITH Group Art Unit:

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy 37 C.F.R. § 1.98(a)(3) even if in a foreign language because the codes are the same in all languages. However, applicant(s) does not necessarily adopt the position reflected by that report.

The references cited and enclosed herein are cited in the subject specification.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 23-0804. Triplicate copies of this letter are enclosed.

Respectfully submitted,

NOA M. RENSING ET AL.

By: Swell E. Horth
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Dated: March 5, 2002

BEH/jde/267422 Enclosures

Date: March 5, 2002

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ATTY, DOCKET NO. APPLICATION NO Form PTO-1449 U.S. DEPARTMENT OF COMMERCE MIOPT-008XX (REV. 07/01) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) APPLICANT: NOA M. RENSING ET AL. GROUP FILING DATE Herewith U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER DATE NAME **CLASS SUBCLASS** FILING DATE IF APPROPRIATE\* INITIAL 455 557 6,091,967 07/18/2000 Kruys et al. 6,031,946 02/29/2000 Bergmann et al. 385 18 250 08/01/2000 Harden et al. 156 6,096,155 06/23/98 Feldman et al. 369 112 5,771,218 6,201,629 03/13/2001 McClelland et al. 359 223 65 10/26/93 Takahashi 385 5,257,334 Iida et al. 385 85 06/14/94 5,321,785 FOREIGN PATENT DOCUMENTS SUBCLASS TRANSLATION DOCUMENT NUMBER DATE **COUNTRY** CLASS YES NO OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.) H. Toshiyoshi and H. Fujita, Electrostatic micro torsion mirrors for an optical switch matrix, J. Microelectromechanical Systems, 5(4) 1996. pp. 231-237. Callaway et al. Array Light Valve Switches Information Signals Between Fiber Optic Signal Conductors, IBM Technical Disclosure Bulletin, 27(2) 1984 pp. 1119-1120. M.F. Dautartas et al., Silicon Based Moving Mirror Optical Switch, J. Lightwave Tech. 10(8) 1992, pp. 1078-1085. K.E. Peterson, Silicon torsional scanning mirror, IBM J. Res. Develop., 24, 1980, pp. 631-637. Peter Heywood, Dark Horse Joins Optical Switch Race, Light Reading - The Global Site for Optical Networking, www.lightreading.com, March 5, 2002, pp. 1-2. The Demand for All-Optical Switching, C-Speed - Overview and C-Speed - Core Technologies, www.cspeed.com, March 5, 2002. OMM - MEMS Switch Products, OMM, Inc. - 2D Products Brochure, www.omminc.com, March 5, 2002. U. Breng et al., Electrostatic micromechanic actuators, J. Micromechanics and Microengineering, 2(4) December 1992, pp. 256-261. DATE CONSIDERED **EXAMINER** \*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

BEH/jde/267424